

# LINQALLOY TR-SAC305



## Solder Preforms

- Alloy Composition: Sn96.5Ag3.0Cu0.5
- Melting Temperature: 217°C - 221°C
- Can be flux coated internally or externally

**LINQALLOY TR-SAC305** is a lead free Tin/Silver/Copper solder preform that is used by companies working with BGA, CSP, LBGA, PBGA and CBGA components who have made the transition to Lead-free (Pb-free) soldering.

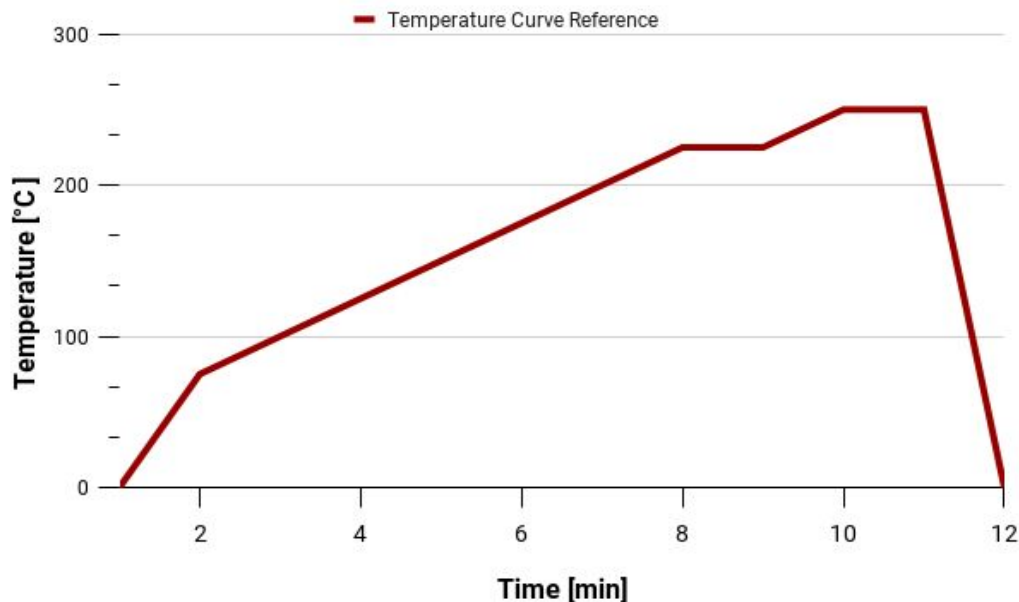
**LINQALLOY TR-SAC305** comes in various shapes and sizes of standard and customized preforms. Preforms can come internally or externally coated with all common types of fluxes upon request.

### Chemical composition

The chemical composition of the alloy is:

Chemical composition (wt.%)									
	Sn	Ag	Cu	Sb	Bi	Zn	Pb	Ni	Cd
Ratio	Bal.	3.000	0.500	0.002	0.001	0.001	0.001	0.002	0.001

### Recommended reflow soldering temperature *[Reference value]*



Melting Temperature [°C]	Density [ g/cm <sup>3</sup> ]
217	7.37

#### Europe

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## Washers

Shape	Outer Dia [mm]	Inner Dia [mm]	Thickness [mm]
Washer	3.25 $\pm$ 0.05	1.65 $\pm$ 0.05	0.87 $\pm$ 0.01

## Washer Packaging

Each lot is packed individually in a reel as follows:

1. Solder preforms are packed into reels.
2. An automated conveyor belt system is leading the reels into vacuum sealed bags.
3. Nitrogen is used within 30 minutes to prevent oxidation and impurities.
4. Bubble bags are used as a secondary protective aid besides the initial packaging method.

## Standard Preforms

Preform	Length [mm]	Width [mm]	Height [mm]	Volume [mm <sup>3</sup> ]
0201	0.60	0.30	0.30	0.054
0402	1.00	0.50	0.50	0.250
0603	1.60	0.8	0.80	1.020
0805	2.03	1.27	0.76	1.960
1206	3.56	1.52	0.77	4.170

## Standard Preform Packaging

Packaging	0201	0402	0603	0805	1206
7" reel	20,000	10,000	4,000	3-4,000	3-4,000
12" reel	-	25,000	15,000	15,000	15,000
Dielectric	Paper	Paper	Plastic	Plastic	Plastic

*Please note that standard preforms are not typically vacuum and nitrogen sealed.*

## Storage and shelf life

When handled properly, the solder preforms have a shelf life of 12 months from the manufacturing date.

They should be stored in a dry, non-corrosive environment to prevent oxidation. Ensure that the preforms are shielded from dust or other contaminants, and ensure that the packaging is not damaged.

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